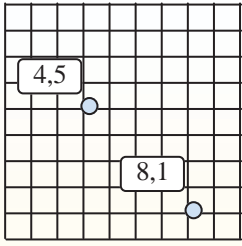




Find the midpoint of each set of coordinates.



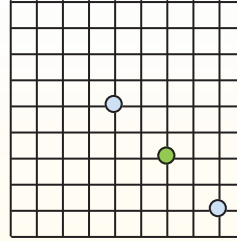
**Midpoint Formula**

$$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

$$\left( \frac{4 + 8}{2}, \frac{5 + 1}{2} \right)$$

The midpoint is at  
(6, 3)



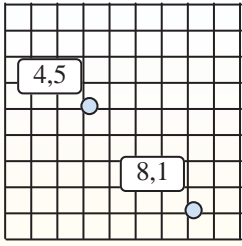
**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_

- 1) (10, 3) & (6, 0)
- 2) (7, 10) & (10, 1)
- 3) (2, 4) & (6, 3)
- 4) (9, 5) & (10, 6)
- 5) (0, 5) & (7, 4)
- 6) (10, 3) & (10, 8)
- 7) (1, 2) & (5, 0)
- 8) (8, 2) & (6, 2)
- 9) (3, 5) & (10, 9)
- 10) (9, 10) & (8, 9)
- 11) (1, 10) & (7, 7)
- 12) (2, 2) & (0, 3)



Find the midpoint of each set of coordinates.



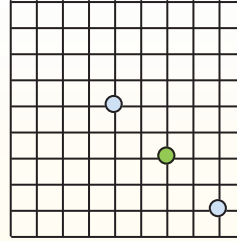
**Midpoint Formula**

$$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

To find the midpoint of the coordinates (4,5) and (8,1), plug the values into the midpoint formula.

$$\left( \frac{4 + 8}{2}, \frac{5 + 1}{2} \right)$$

The midpoint is at  
(6, 3)



**Answers**

- 1)  $(10, 3) \& (6, 0) \quad \left( \frac{10+6}{2}, \frac{3+0}{2} \right) = (8, 1.5)$
- 2)  $(7, 10) \& (10, 1) \quad \left( \frac{7+10}{2}, \frac{10+1}{2} \right) = (8.5, 5.5)$
- 3)  $(2, 4) \& (6, 3) \quad \left( \frac{2+6}{2}, \frac{4+3}{2} \right) = (4, 3.5)$
- 4)  $(9, 5) \& (10, 6) \quad \left( \frac{9+10}{2}, \frac{5+6}{2} \right) = (9.5, 5.5)$
- 5)  $(0, 5) \& (7, 4) \quad \left( \frac{0+7}{2}, \frac{5+4}{2} \right) = (3.5, 4.5)$
- 6)  $(10, 3) \& (10, 8) \quad \left( \frac{10+10}{2}, \frac{3+8}{2} \right) = (10, 5.5)$
- 7)  $(1, 2) \& (5, 0) \quad \left( \frac{1+5}{2}, \frac{2+0}{2} \right) = (3, 1)$
- 8)  $(8, 2) \& (6, 2) \quad \left( \frac{8+6}{2}, \frac{2+2}{2} \right) = (7, 2)$
- 9)  $(3, 5) \& (10, 9) \quad \left( \frac{3+10}{2}, \frac{5+9}{2} \right) = (6.5, 7)$
- 10)  $(9, 10) \& (8, 9) \quad \left( \frac{9+8}{2}, \frac{10+9}{2} \right) = (8.5, 9.5)$
- 11)  $(1, 10) \& (7, 7) \quad \left( \frac{1+7}{2}, \frac{10+7}{2} \right) = (4, 8.5)$
- 12)  $(2, 2) \& (0, 3) \quad \left( \frac{2+0}{2}, \frac{2+3}{2} \right) = (1, 2.5)$

1. (8, 1.5)
2. (8.5, 5.5)
3. (4, 3.5)
4. (9.5, 5.5)
5. (3.5, 4.5)
6. (10, 5.5)
7. (3, 1)
8. (7, 2)
9. (6.5, 7)
10. (8.5, 9.5)
11. (4, 8.5)
12. (1, 2.5)